

thereof, said internal orifices opening in common into said small channel.

75.(withdrawn) An extrusion die according to claim 37 which further comprises an additional circular channel for extruding a circular flow of a third molten polymer material on the side of said generally circular flow of said first polymer material facing said circular array of narrow strands of said second material upstream of the point where the circular array merges with first circular flow to thereby form on the first circular flow of said first polymer material a continuous layer of said third polymer material underlying said circular array of narrow strands upon its merger with the first circular flow.

76.(previously presented) A cross-laminate comprising:
at least one pair of two adjacent separately coextruded films A and B which are laminated together in sandwich relation at least partially by heating,
each of said films A and B having an uniaxial or unbalanced biaxial molecular orientation with the main direction of orientation in film A crossing the main direction of orientation in film B and
said films each comprises a continuous main layer consisting of a polymer material selected to give high tensile strength,
on at least the mutually facing sides of said main layers a first surface layer of a different polymer material,
and interposed between each first surface layer and its main layer a second surface layer of a different polymer material,
said first surface layer on the main layer of each of the films A and B being a discontinuous layer consisting of at least one array of coextruded thin strands with the strands in the arrays of the two films arranged in crossing relation to one another,
the polymer material of said second surface layers being selected to control the lamination strength in the strand-free regions thereof and
the polymer material of the strands being selected to control the lamination strength at the crossing points of the strand arrays such that the lamination strength is highest at the strand crossing points.

77.(currently amended) A cross-laminate according to claim ~~76~~ wherein:

1 89.(previously presented) A cross-laminate according to claim 76 wherein:
2 the first surface layer on at least one of said films A and B comprises at least two of said
3 arrays of strands,
4 at least one of said two arrays being formed of a polymer material differing in appearance
5 from another of said two arrays and
6 the strands of the differing arrays being interspersed with one another.

1 90.(previously presented) A cross-laminate according to claim 76 wherein:
2 said first surface layer on each of the films A and B constitutes at the highest 10% of the
3 volume of the corresponding film.

1 91.(previously presented) A cross-laminate according to claim 76 wherein:
2 the average melting point of the polymer material which constitutes the strand-formed first
3 layer of each of said films A and B is at least about 10°C lower than the average melting point of
4 the polymer material of the the main layer.

1 92.(previously presented) A cross-laminate according to claim 76 wherein:
2 the average melting point of the polymer material which constitutes the strand-formed first
3 layer of each of said films A and B is at least about 15°C lower than the average melting point of
4 the polymer material of the main layer

1 93.(previously presented) A cross-laminate according to claim 76 which further comprises
2 a continuous extrusion lamination layer introduced between said films A and B to laminate
3 said films in said sandwich relation.

1 94.(currently amended) A cross-laminate according to claim ~~76~~ wherein:
2 the thickness of the strands in said first surface layer of each of said films A and B is not
3 greater than 10% of the thickness of the respective film.

1 95.(currently amended) A cross-laminate according to claim ~~76~~ wherein
2 the thickness increase of each of said films A and B at the locations where the strands are
3 present is at most 10% of the film thickness in strand-free regions.

96.(previously presented) A cross-laminate according to claim 76 wherein:
the lamination strength in said strand-free regions of said cross-laminate is not more than 50% of the lamination strength at said crossing points of the strands thereof, as measured by a peel test carried out on narrow specimens of the cross-laminate at a velocity of about 1 mm sec'.

97.(currently amended) A cross-laminate according to claim 78 having a general thickness at the highest of about 0.3 mm, and:

wherein a said film A is situated at one of its sides,
said film A having its exterior surface corrugated to form a visible pattern of striations
extending in one direction

with the spacing of said striations in said pattern being at most about 3 mm, the main layer and said second surface layer of said film A are substantially transparent to enable the coloured strands to be visible when the laminate is observed from the an A-side, and the depth of the corrugations is sufficient to impart a three-dimensional effect to said cross-laminate such that the strands appear to be spaced internally from the exterior surface of said film A a distance substantially greater than the actual maximum thickness of said film A.

98.(currently amended) A cross-laminate according to claim ~~76~~ wherein:
said first surface layer on each of the films A and B constitutes at the highest 5% of the volume of the corresponding film.

99.(previously presented) A cross-laminate according to claim 76 wherein:
the average melting point of the polymer material which constitutes the strand-formed first surface layer of each of said films A and B is at least about 20°C lower than the average melting point of the polymer material which constitutes the main layer thereof.

100.(previously presented) A cross-laminate according to claim 76 wherein the distance from center-to-center of adjacent strands of each said first surface layer is not greater than 20 mm.

101.(withdrawn) A method of manufacturing a cross-laminate comprising at least two polymer films A and B which comprises:

1 104.(withdrawn) A method according to claim 101 which comprises the further step of:
2 after said films are brought together in said sandwich arrangement and before, after or
3 simultaneously with their being laminated together, stretching said films in their longitudinal or
4 transverse directions or both to further orient the same.

1 105.(withdrawn) The method according to claim 101 wherein:
2 said films A and B are brought together in said sandwich relation with said strand arrays in
3 direct contact to be directly sealed together upon lamination.

1 106.(withdrawn) The method according to claim 101 wherein:
2 film A is coextruded as a five-layer assembly
3 having said main layer
4 with at least one of said first surface layers and
5 a second surface layer coextruded on both of the opposite sides of said main layer;
6 and
7 said five-layer film A is brought together with a said film B on each of its opposite sides
8 so arranged that the arrays of strands of the first surface layer of each said film B are
9 in crossing relation with an array of strands of a first surface layer of said film A proximate thereto.

1 107.(withdrawn) A method according to claim 101 wherein:
2 at least one additional film C is brought together with at least one of said films A and B on
3 a side opposite said strand array of the latter,
4 said film C comprising:
5 a main layer of a polymer material selected to give high tensile strength and
6 a continuous surface layer of a different polymer material on the side thereof facing
7 said at least one of said films A and B,
8 the polymer material of said continuous surface layer being adapted when the films
9 are is laminated to produce a higher lamination strength of said film C with said
10 opposite side of said at least one of films A and B than the lamination strength
11 between films A and B in the strand-free regions thereof.

1 108.(withdrawn) A method according to claim 101 wherein:

1 the separate coextrusions of said films A and B are so controlled that the relative rates of
2 extrusion flow of the polymeric materials of said main, second and first surface layers of said films
3 A and B are such that said first surface layer on each of the films A and B constitutes at the highest
4 10% of the volume of the respective film A or B.

1 109.(withdrawn) A method according to claim 101 wherein:
2 the average melting point of the polymer material of said strand-formed first surface layer
3 of each of said films A and B is at least about 10°C lower than the average melting point of the
4 polymer material of the main layer thereof.

1 110.(withdrawn) The method according to claim 101 wherein the polymer material of the
2 strand-formed array of at least one of said films A and B comprises coloration material in sufficient
3 amount and/or coloration to render the strands visible through at least one side of the cross-laminate.

1 111.(withdrawn) A method according to claim 101 wherein:
2 the polymer materials of said main layer and said second continuous layer of said film A are
3 sufficiently transparent to render the strands of said first surface layer thereof visible therethrough,
4 and
5 coextrusion conditions for the respective films are controlled so that the general thickness
6 of the final laminate is not more than about 0.3 mm, which further comprises:
7 embossing at least the exterior surface of said film A into corrugations forming a pattern of
8 striations extending in one direction with corresponding thickness variations in said film,
9 the separation between the striations in said pattern being not more than about 3 mm and
10 the depth of the corrugations being sufficient to impart a three-dimensional effect to the
11 cross-laminate such that the strands when viewed from the A-side appear to be spaced internally
12 from the exterior surface of said film a distance substantially greater than the actual maximum
13 thickness of said film A.

1 112.(withdrawn) A method according to claim 111 wherein: said embossing is carried out by:
2 passing said films A and B after they have been brought together in sandwich relation and:
3 before or after said films have been laminated through at least one pair of mutually
4 intermeshing grooved rollers to form said corrugations while simultaneously effecting a transverse

- 1 its first surface layer and the strands of the adjacent first surface layer of said film A or B than in the
- 2 strand-free regions thereof.